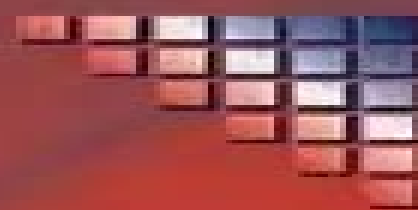


Communications and Control Engineering



Huaguang Zhang
Derong Liu
Yanhong Luo
Ding Wang

Adaptive Dynamic Programming for Control

Algorithms and Stability

 Springer

Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

Sebastian Brünink



Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering:

Adaptive Dynamic Programming for Control Huaguang Zhang, Derong Liu, Yanhong Luo, Ding Wang, 2012-12-14

There are many methods of stable controller design for nonlinear systems. In seeking to go beyond the minimum requirement of stability, Adaptive Dynamic Programming in Discrete Time approaches the challenging topic of optimal control for nonlinear systems using the tools of adaptive dynamic programming (ADP). The range of systems treated is extensive: affine, switched, singularly perturbed, and time delay nonlinear systems are discussed, as are the uses of neural networks and techniques of value and policy iteration. The text features three main aspects of ADP in which the methods proposed for stabilization and for tracking and games benefit from the incorporation of optimal control methods: infinite horizon control for which the difficulty of solving partial differential Hamilton-Jacobi-Bellman equations directly is overcome and proof provided that the iterative value function updating sequence converges to the infimum of all the value functions obtained by admissible control law sequences; finite horizon control implemented in discrete time nonlinear systems showing the reader how to obtain suboptimal control solutions within a fixed number of control steps and with results more easily applied in real systems than those usually gained from infinite horizon control; nonlinear games for which a pair of mixed optimal policies are derived for solving games both when the saddle point does not exist and when it does, avoiding the existence conditions of the saddle point. Non-zero sum games are studied in the context of a single network scheme in which policies are obtained guaranteeing system stability and minimizing the individual performance function, yielding a Nash equilibrium. In order to make the coverage suitable for the student as well as for the expert reader, Adaptive Dynamic Programming in Discrete Time establishes the fundamental theory involved clearly, with each chapter devoted to a clearly identifiable control paradigm, demonstrates convergence proofs of the ADP algorithms to deepen understanding of the derivation of stability and convergence with the iterative computational methods used, and shows how ADP methods can be put to use both in simulation and in real applications. This text will be of considerable interest to researchers interested in optimal control and its applications in operations research, applied mathematics, computational intelligence, and engineering. Graduate students working in control and operations research will also find the ideas presented here to be a source of powerful methods for furthering their study.

Reinforcement Learning for Optimal Feedback Control Rushikesh Kamalapurkar, Patrick Walters, Joel Rosenfeld, Warren Dixon, 2018-05-10 Reinforcement Learning for Optimal Feedback Control develops model-based and data-driven reinforcement learning methods for solving optimal control problems in nonlinear deterministic dynamical systems. In order to achieve learning under uncertainty, data-driven methods for identifying system models in real time are also developed. The book illustrates the advantages gained from the use of a model and the use of previous experience in the form of recorded data through simulations and experiments. The book's focus on deterministic systems allows for an in-depth Lyapunov-based analysis of the performance of the methods described during the learning phase and

during execution To yield an approximate optimal controller the authors focus on theories and methods that fall under the umbrella of actor critic methods for machine learning They concentrate on establishing stability during the learning phase and the execution phase and adaptive model based and data driven reinforcement learning to assist readers in the learning process which typically relies on instantaneous input output measurements This monograph provides academic researchers with backgrounds in diverse disciplines from aerospace engineering to computer science who are interested in optimal reinforcement learning functional analysis and functional approximation theory with a good introduction to the use of model based methods The thorough treatment of an advanced treatment to control will also interest practitioners working in the chemical process and power supply industry Handbook of Reinforcement Learning and Control Kyriakos G.

Vamvoudakis, Yan Wan, Frank L. Lewis, Derya Cansever, 2021-06-23 This handbook presents state of the art research in reinforcement learning focusing on its applications in the control and game theory of dynamic systems and future directions for related research and technology The contributions gathered in this book deal with challenges faced when using learning and adaptation methods to solve academic and industrial problems such as optimization in dynamic environments with single and multiple agents convergence and performance analysis and online implementation They explore means by which these difficulties can be solved and cover a wide range of related topics including deep learning artificial intelligence applications of game theory mixed modality learning and multi agent reinforcement learning Practicing engineers and scholars in the field of machine learning game theory and autonomous control will find the Handbook of Reinforcement Learning and Control to be thought provoking instructive and informative *Control of Complex Systems* Kyriakos Vamvoudakis, Sarangapani Jagannathan, 2016-07-27 In the era of cyber physical systems the area of control of complex systems has grown to be one of the hardest in terms of algorithmic design techniques and analytical tools The 23 chapters written by international specialists in the field cover a variety of interests within the broader field of learning adaptation optimization and networked control The editors have grouped these into the following 5 sections Introduction and Background on Control Theory Adaptive Control and Neuroscience Adaptive Learning Algorithms Cyber Physical Systems and Cooperative Control Applications The diversity of the research presented gives the reader a unique opportunity to explore a comprehensive overview of a field of great interest to control and system theorists This book is intended for researchers and control engineers in machine learning adaptive control optimization and automatic control systems including Electrical Engineers Computer Science Engineers Mechanical Engineers Aerospace Automotive Engineers and Industrial Engineers It could be used as a text or reference for advanced courses in complex control systems Collection of chapters from several well known professors and researchers that will showcase their recent work Presents different state of the art control approaches and theory for complex systems Gives algorithms that take into consideration the presence of modelling uncertainties the unavailability of the model the possibility of cooperative non cooperative goals and malicious attacks compromising the security of networked teams Real system

examples and figures throughout make ideas concrete Includes chapters from several well known professors and researchers that showcases their recent work Presents different state of the art control approaches and theory for complex systems Explores the presence of modelling uncertainties the unavailability of the model the possibility of cooperative non cooperative goals and malicious attacks compromising the security of networked teams Serves as a helpful reference for researchers and control engineers working with machine learning adaptive control and automatic control systems

Learning-Based Adaptive Control Mouhacine Benosman, 2016-08-02 Adaptive control has been one of the main problems studied in control theory The subject is well understood yet it has a very active research frontier This book focuses on a specific subclass of adaptive control namely learning based adaptive control As systems evolve during time or are exposed to unstructured environments it is expected that some of their characteristics may change This book offers a new perspective about how to deal with these variations By merging together Model Free and Model Based learning algorithms the author demonstrates using a number of mechatronic examples how the learning process can be shortened and optimal control performance can be reached and maintained Includes a good number of Mechatronics Examples of the techniques Compares and blends Model free and Model based learning algorithms Covers fundamental concepts state of the art research necessary tools for modeling and control

Adaptive Dynamic Programming with Applications in Optimal Control Derong Liu, Qinglai Wei, Ding Wang, Xiong Yang, Hongliang Li, 2017-01-04 This book covers the most recent developments in adaptive dynamic programming ADP The text begins with a thorough background review of ADP making sure that readers are sufficiently familiar with the fundamentals In the core of the book the authors address first discrete and then continuous time systems Coverage of discrete time systems starts with a more general form of value iteration to demonstrate its convergence optimality and stability with complete and thorough theoretical analysis A more realistic form of value iteration is studied where value function approximations are assumed to have finite errors Adaptive Dynamic Programming also details another avenue of the ADP approach policy iteration Both basic and generalized forms of policy iteration based ADP are studied with complete and thorough theoretical analysis in terms of convergence optimality stability and error bounds Among continuous time systems the control of affine and nonaffine nonlinear systems is studied using the ADP approach which is then extended to other branches of control theory including decentralized control robust and guaranteed cost control and game theory In the last part of the book the real world significance of ADP theory is presented focusing on three application examples developed from the authors work renewable energy scheduling for smart power grids coal gasification processes and water gas shift reactions Researchers studying intelligent control methods and practitioners looking to apply them in the chemical process and power supply industries will find much to interest them in this thorough treatment of an advanced approach to control

Robust Adaptive Dynamic Programming Yu Jiang, Zhong-Ping Jiang, 2017-04-13 A comprehensive look at state of the art ADP theory and real world applications This book fills a gap in the

literature by providing a theoretical framework for integrating techniques from adaptive dynamic programming ADP and modern nonlinear control to address data driven optimal control design challenges arising from both parametric and dynamic uncertainties Traditional model based approaches leave much to be desired when addressing the challenges posed by the ever increasing complexity of real world engineering systems An alternative which has received much interest in recent years are biologically inspired approaches primarily RADP Despite their growing popularity worldwide until now books on ADP have focused nearly exclusively on analysis and design with scant consideration given to how it can be applied to address robustness issues a new challenge arising from dynamic uncertainties encountered in common engineering problems Robust Adaptive Dynamic Programming zeros in on the practical concerns of engineers The authors develop RADP theory from linear systems to partially linear large scale and completely nonlinear systems They provide in depth coverage of state of the art applications in power systems supplemented with numerous real world examples implemented in MATLAB They also explore fascinating reverse engineering topics such how ADP theory can be applied to the study of the human brain and cognition In addition the book Covers the latest developments in RADP theory and applications for solving a range of systems complexity problems Explores multiple real world implementations in power systems with illustrative examples backed up by reusable MATLAB code and Simulink block sets Provides an overview of nonlinear control machine learning and dynamic control Features discussions of novel applications for RADP theory including an entire chapter on how it can be used as a computational mechanism of human movement control Robust Adaptive Dynamic Programming is both a valuable working resource and an intriguing exploration of contemporary ADP theory and applications for practicing engineers and advanced students in systems theory control engineering computer science and applied mathematics

Computing Algorithms with Applications in Engineering V. K. Giri, Nishchal K. Verma, R. K. Patel, V. P. Singh, 2020-03-02 This book collects high quality research papers presented at the International Conference on Computing Applications in Electrical Electronics Engineering held at Rajkiya Engineering College Sonbhadra India on August 30 31 2019 It provides novel contributions in computational intelligence together with valuable reference material for future research The topics covered include big data analytics IoT and smart infrastructures machine learning artificial intelligence and deep learning crowd sourcing and social intelligence natural language processing business intelligence high performance computing wireless mobile and green communications ad hoc sensor and mesh networks SDN and network virtualization cognitive systems swarm intelligence human computer interaction network and information security intelligent control soft computing networked control systems renewable energy sources and technologies biomedical signal processing pattern recognition and object tracking and sensor devices and applications

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Table of Contents Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

1. Understanding the eBook Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - The Rise of Digital Reading Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - User-Friendly Interface

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4. Exploring eBook Recommendations from Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - Personalized Recommendations
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering User Reviews and Ratings
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering and Bestseller Lists
5. Accessing Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering Free and Paid eBooks
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering Public Domain eBooks
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering eBook Subscription Services
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering Budget-Friendly Options
6. Navigating Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering Compatibility with Devices
 - Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - Highlighting and Note-Taking Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
 - Interactive Elements Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
8. Staying Engaged with Adaptive Dynamic Programming For Control Algorithms And Stability Communications And

Control Engineering

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

9. Balancing eBooks and Physical Books Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

- Setting Reading Goals Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering

- Fact-Checking eBook Content of Adaptive Dynamic Programming For Control Algorithms And Stability Communications And Control Engineering
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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